NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL COMMISSION

LAKE TROPHIC DATA

MORPHOMETRIC:

LAKE	Bog Pond, Little	LAKE AREA (HA)	15.01
TOWN	Odell	MAXIMUM DEPTH (M)	3.0
COUNTY	Coos	MEAN DEPTH (M)	
RIVER BASIN	Connecticut	VOLUME (M^3)	
LATITUDE	44 ° 42'N	MUD SURFACE AREA (HA)	
LONGITUDE	71 ° 23'W	RELATIVE DEPTH	0.7
ELEVATION (FT)	2042	SHORE CONFIGURATION	1.53
SHORE LENGTH (M)	2100	AREAL WATER LOAD (M/YR)	
WATERSHED AREA (HA)	986.6	FLUSHING RATE (YR^{-1})	
% WATERSHED PONDED	3.6%	PHOSPHORUS RETENTION COEFF.	

BIOLOGICAL:	DATE	2 SEP 1980
DOM. PHYTOPLANKTON (% total) 1		no dominant (sparse)
2		
NUMBER OF ALGAL GENERA		5
SPECIES DIVERSITY		
CHLOROPHYLL a (µg/L)		1.22
DOM. ZOOPLANKTON (% total) 1		sparse - no dominant
2		
ROTIFERS/LITER		< 1
MICROCRUSTACEA/LITER		2
TOTAL ZOOPLANK. CNTS (cells/L)		4
VASCULAR PLANT ABUNDANCE		Sparse
DOMINANT VASCULAR PLANTS 1		Eleocharis
2		Nuphar
3		
SECCHI DISK TRANSPARENCY (M)		3.4 VOB
BOTTOM DISS. OXYGEN (mg/L)		9.2
SEDIMENT: % ORGANIC MATTER		

LAKE TYPE: An artificial pond.

SUMMER THERMAL STRATIFICATION: YES ____ NO X WEAK ____

IF YES, VOLUME OF HYPOLIMNION _____ (m^3) THERMOCLINE DEPTH ____ (m)

CHEMICAL: (mg/L unless indicated otherwise) LAKE: Bog Pond, Little

	WINTER		SUMMER		
DATE			2 SEP 1980		
DEPTH (M)			1.0	3.0	
pH (UNITS)			6.0	5.8	
ALKALINITY (I. P.)					
ALKALINITY (F.E.P.)			3.0	2.8	
NITRITE+NITRATE NITROGEN			0.06	0.06	
TOTAL KJELDAHL NITROGEN			0.58	0.62	
TOTAL PHOSPHORUS			0.009	0.018	
SPEC. CONDUCT. (µMhos/cm)			25	26	
APPARENT COLOR (UNITS)					
TRUE COLOR (440 nm)(UNITS)					
MAGNESIUM			0.34	0.34	
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
TN : TP			71	38	
INORG-N : INORG-P					
[Mg+Ca] : [Na+K]					
CALCITE SATURATION INDEX					

* = NOT DEFENSIBLE NR = NO RESULT

TROPHIC CLASSIFICATION: 1980

	D.O.	S.D.	PLANT ABUND.	CHL a	TOTAL PTS.	TROPHIC CLASS.
CLASSIFICATION POINTS:	-	1	0	0	1	Oligo.

COMMENTS:

1. Also called 'Fourteen and a Half'.
2. This pond was sampled cooperatively with Fish & Game during a fish population study. No winter sampling was done and depth soundings were not taken.
3. Total aluminum values were 0.20 and 0.35 mg/L at the one and three meter depths respectively.
4. Public access with parking was available, but road to pond was very rough.

NO BATHYMETRIC MAP IS AVAILABLE FOR

LITTLE BOG POND

FIELD DATA SHEET

WATER BODY Bog Pond , Little TOWN Odell BY WSPCC; F&G

DATE COLLECTED 2 September 1980 WEATHER Mostly sunny; cool

STATION	DEPTH (M)	TEMP. (°C)	*DISSOLVED OXYGEN	OXYGEN: % SATURATION			
DEEP SPOT	0.1	18.3	8.5	92%			
	1.0	18.2	8.5	92%			
	2.0	16.1	9.2	96%			
	3.0	16.0	9.2	96%			

SECCHI DISK (M) 3.4 V.O.B.

BOTTOM DEPTH (M) 3.4

TIME 1400 hrs.

COMMENTS:

1. Secchi disk "visible on bottom " at 3.4 meters.

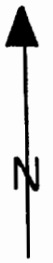
* Dissolved oxygen values in mg/L

BOG POND, LITTLE

ODELL

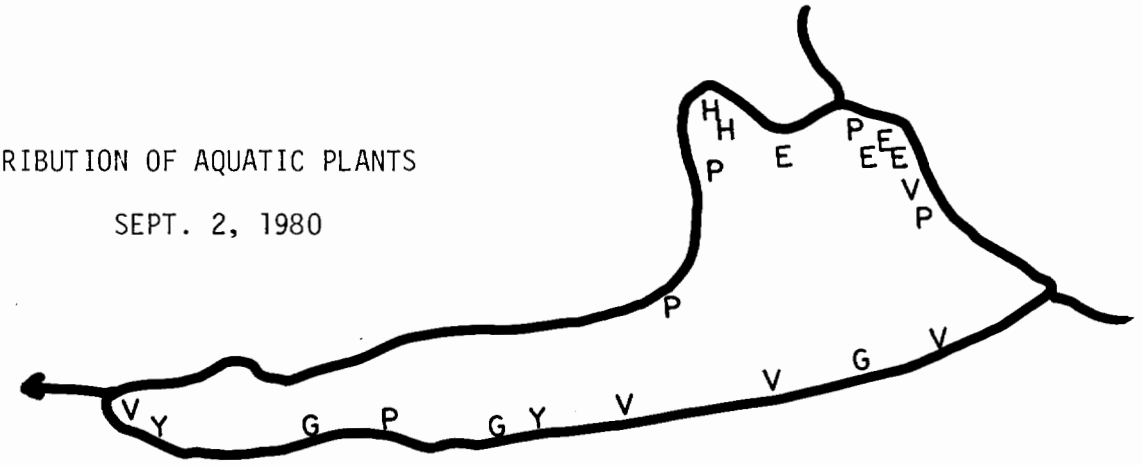
LITTLE BOG POND

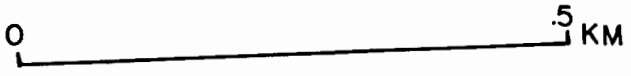
ODELL



DISTRIBUTION OF AQUATIC PLANTS

SEPT. 2, 1980





AQUATIC PLANT SURVEY

LAKE Little Bog Pond TOWN Odell DATE Sept. 2, 1980 BY WSPCC

No.	PLANT NAME		ABUNDANCE
	GENERIC	COMMON	
V	Vallisneria americana	Tapegrass	Sparse
Y	Nuphar	Yellow Water Lily	Sparse
P	Potamogeton	Pondweed	Sparse
G	Gramineae	Grass Family	Sparse
E	Eleocharis	Spike Rush	Sparse
H	Gratiola	Hedge Hyssop	Sparse

OVERALL ABUNDANCE Sparse

GENERAL OBSERVATIONS: